

IN THE CLAIMS:

Please amend claims 1, 16, 50, and 51 herein. Please cancel claims 5-8, 10-15, 17-24, 27, 28, 30-33, and 35-49. Please add new claims 52 and 53. Please note that all claims currently pending and under consideration in the above-referenced application are shown below. Please enter these claims as amended. This listing of claims will replace all prior versions and listings of claims in the application.

1. (Currently Amended) A reactive material, consisting essentially of:
at least one fuel comprising a compound selected from the group consisting of hafnium, tantalum, nickel, zinc, tin, silicon, palladium, bismuth, iron, copper, phosphorous, aluminum, tungsten, zirconium, magnesium, boron, titanium, sulfur, magnalium, and mixtures thereof, wherein the at least one fuel is present at from approximately 10% by weight of a total weight of a reactive material to approximately 90% by weight of the total weight of the reactive material; and
at least one fluoropolymer selected from the group consisting of polytetrafluoroethylene, a thermoplastic terpolymer of tetrafluoroethylene, hexafluoropropylene, and vinylidene fluoride, a copolymer of vinylidene fluoride hexafluoropropylene, and mixtures thereof, wherein the at least one fluoropolymer is present in the reactive material at from approximately 5% by weight of the total weight of the reactive material to approximately 74% by weight of the total weight of the reactive material;
wherein if the at least one fuel comprises magnesium, the at least one fluoropolymer does not comprise polytetrafluoroethylene and vinylidene fluoride-hexafluoropropylene material comprising hafnium and a thermoplastic terpolymer of tetrafluoroethylene, hexafluoropropylene, and vinylidene fluoride.

2-15. (Canceled)

16. (Currently Amended) The reactive material of claim 1, wherein the reactive material consists essentially of hafnium and a thermoplastic terpolymer of tetrafluoroethylene, hexafluoropropylene, and vinylidene fluoride comprises 90% by weight of hafnium and 10% by

weight of the thermoplastic terpolymer of tetrafluoroethylene, hexafluoropropylene, and vinylidene fluoride.

17-24. (Canceled)

25. (Previously Presented) The reactive material of claim 1, wherein the reactive material is disposed within a munitions casing.

26. (Previously Presented) The reactive material of claim 25, wherein the reactive material is formulated to initiate upon impact with a target.

27-49. (Canceled)

50. (Currently Amended) The reactive material of ~~claim 16~~ claim 1, wherein the reactive material is present in a reactive material projectile at a mass ~~that ranges ranging~~ from approximately 1.74 g to approximately 12.99 g.

51. (Currently Amended) The reactive material of ~~claim 25~~ claim 1, wherein the reactive material is present in ~~the~~ a reactive material munition at a mass ~~that ranges ranging~~ from approximately 1.74 g to approximately 12.99 g.

52. (New) A reactive material consisting of hafnium and a thermoplastic terpolymer of tetrafluoroethylene, hexafluoropropylene, and vinylidene fluoride.

53. (New) The reactive material of claim 52, wherein the reactive material consists of 90% by weight of hafnium and 10% by weight of the thermoplastic terpolymer of tetrafluoroethylene, hexafluoropropylene, and vinylidene fluoride.